



Replacement Sheet  
Sheet 1 of 25  
Appl. No. 09/995,695; Filed: Nov 29, 2001  
Dkt No. 1875.1210001; Group Unit: 2643  
Inventors: Wakayama et al.  
Tel. No.: 202-371-2600  
For: Integrated Direct Conversion Satellite Tuner

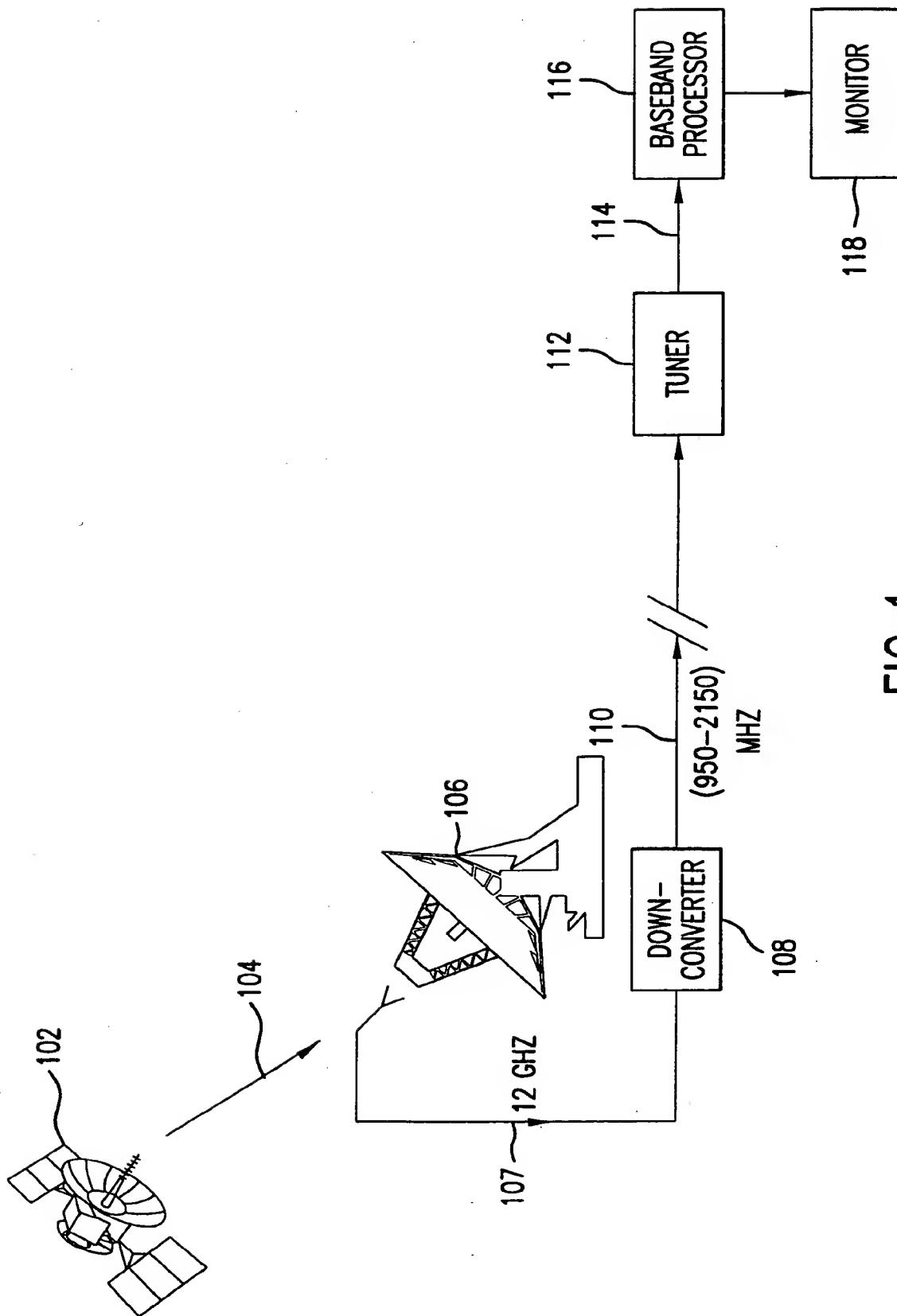


FIG. 1

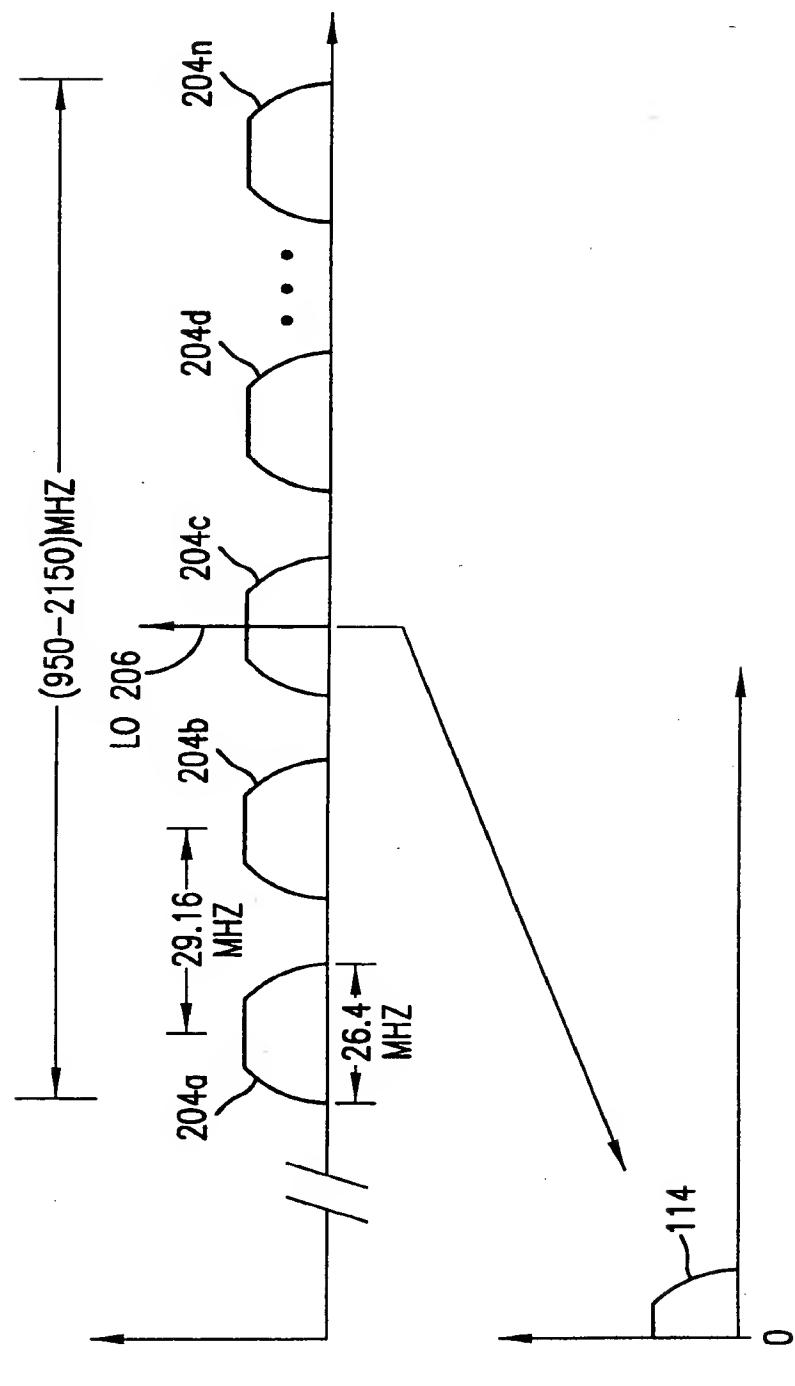
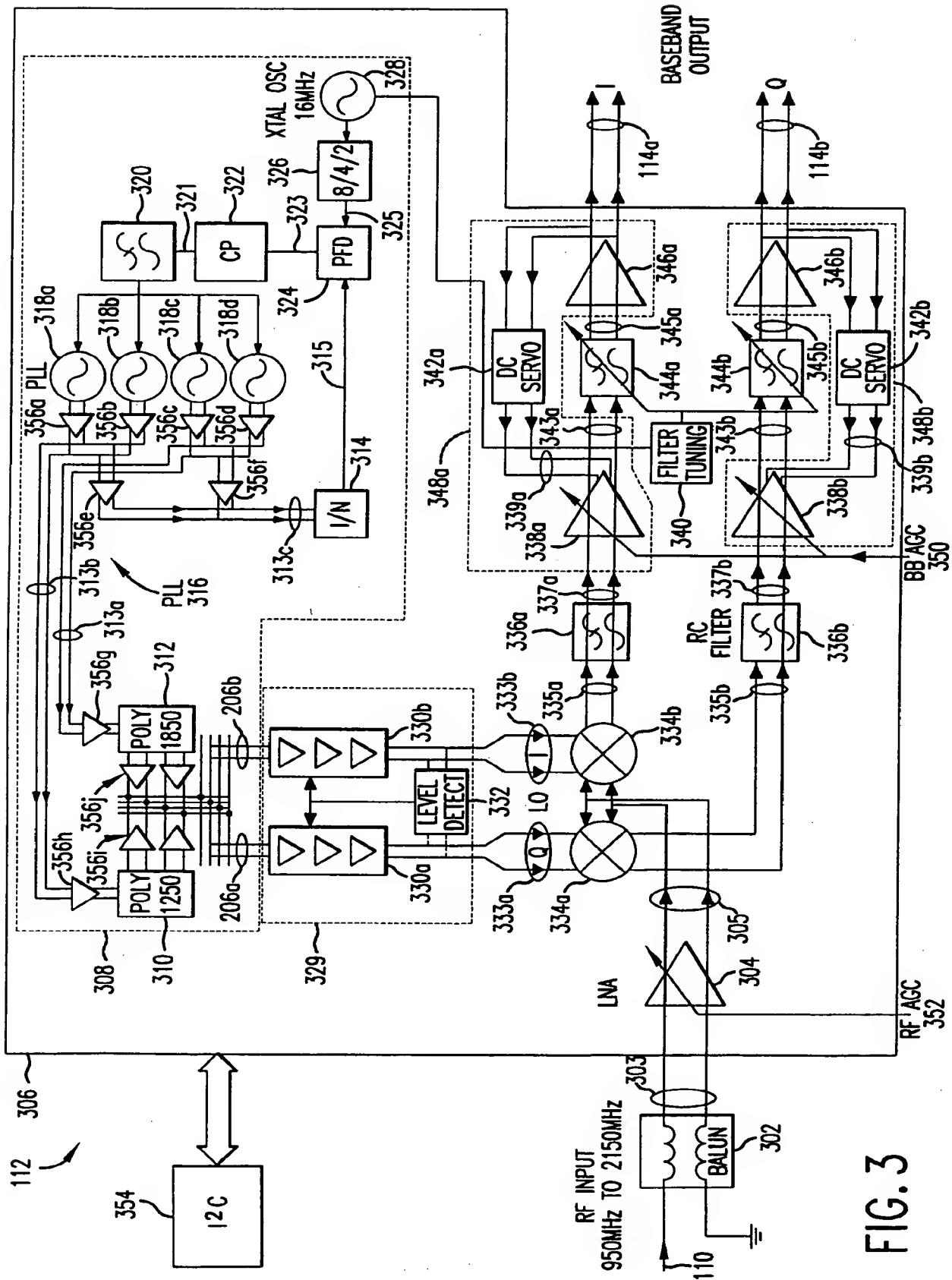


FIG. 2



AMPLIFIERS 356

	AMP 356a	AMP 356b	AMP 356c	AMP 356d	AMP 356e	AMP 356f	AMP 356g	AMP 356h	AMPS 356i	AMPS 356j
VCO 318a	ON	OFF	OFF	OFF	ON	OFF	OFF	OFF	ON	ON
VCO 318b	OFF	ON	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
VCO 318c	OFF	OFF	ON	OFF	OFF	ON	ON	OFF	OFF	ON
VCO 318d	OFF	OFF	OFF	ON	OFF	ON	ON	OFF	OFF	ON

400

VCO 318

FIG. 4

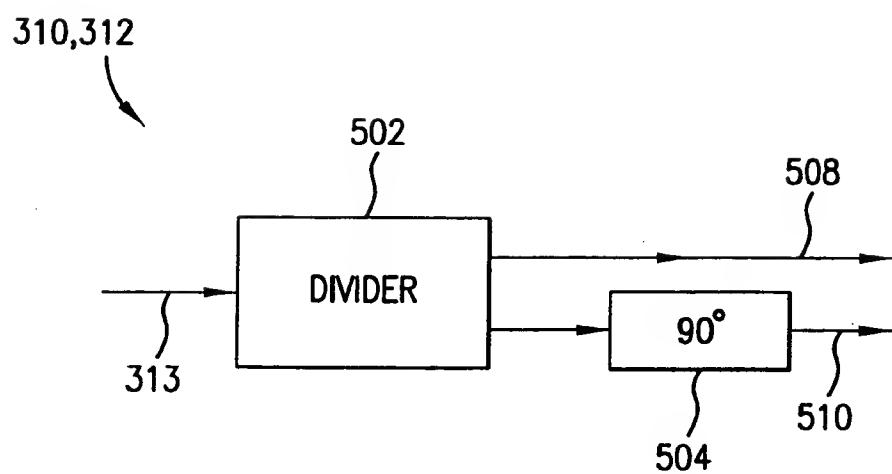
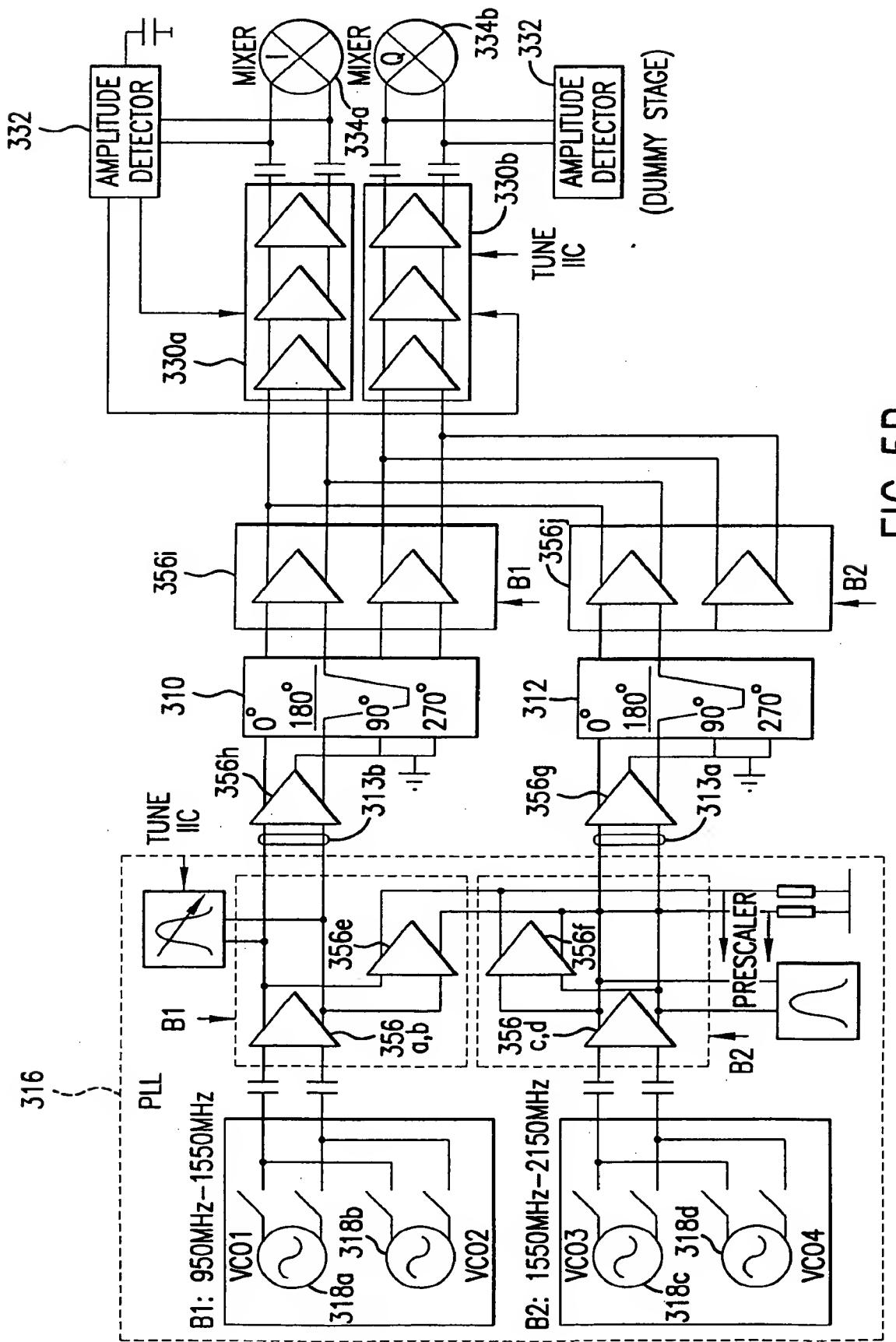


FIG. 5A



**FIG. 5B**

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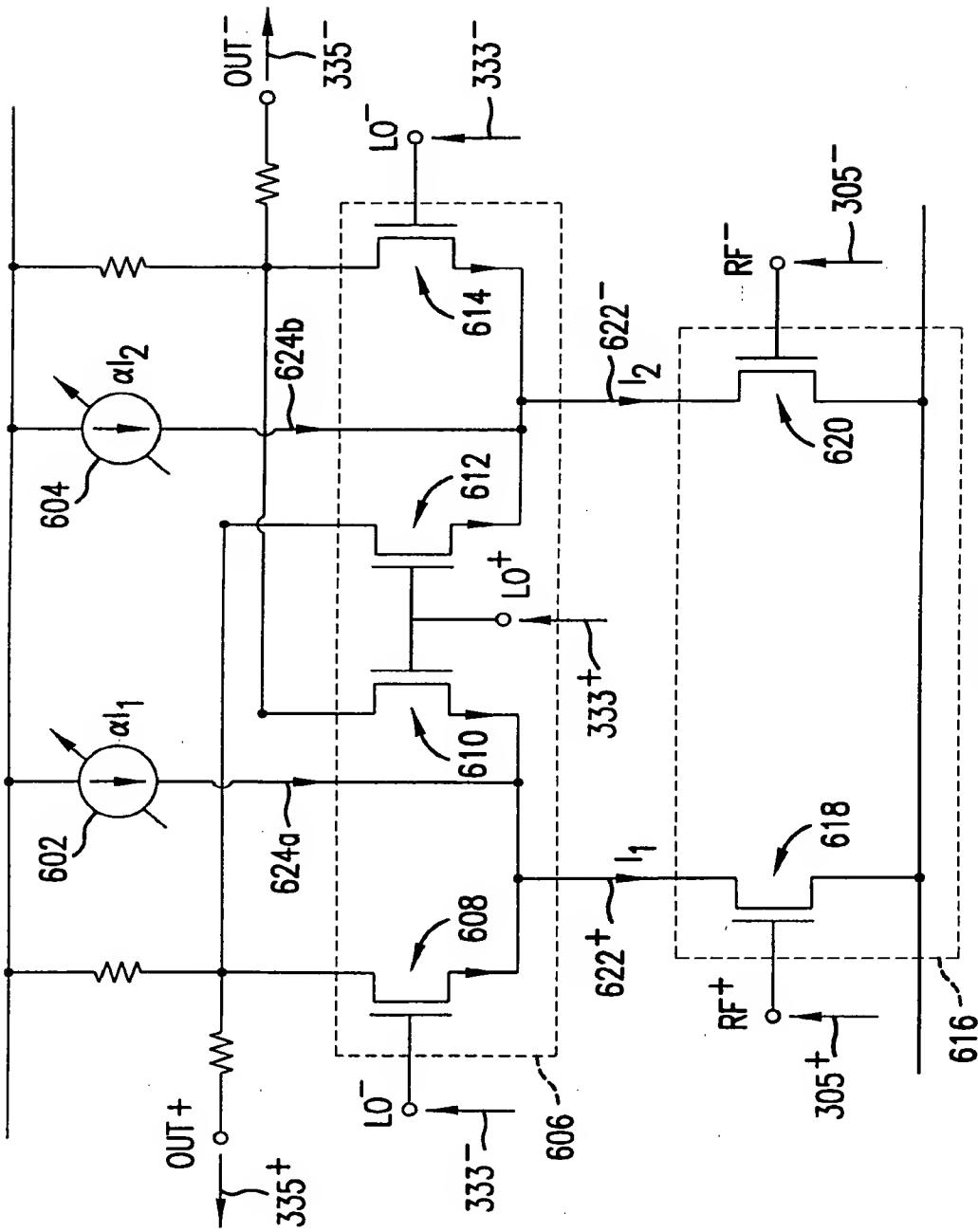
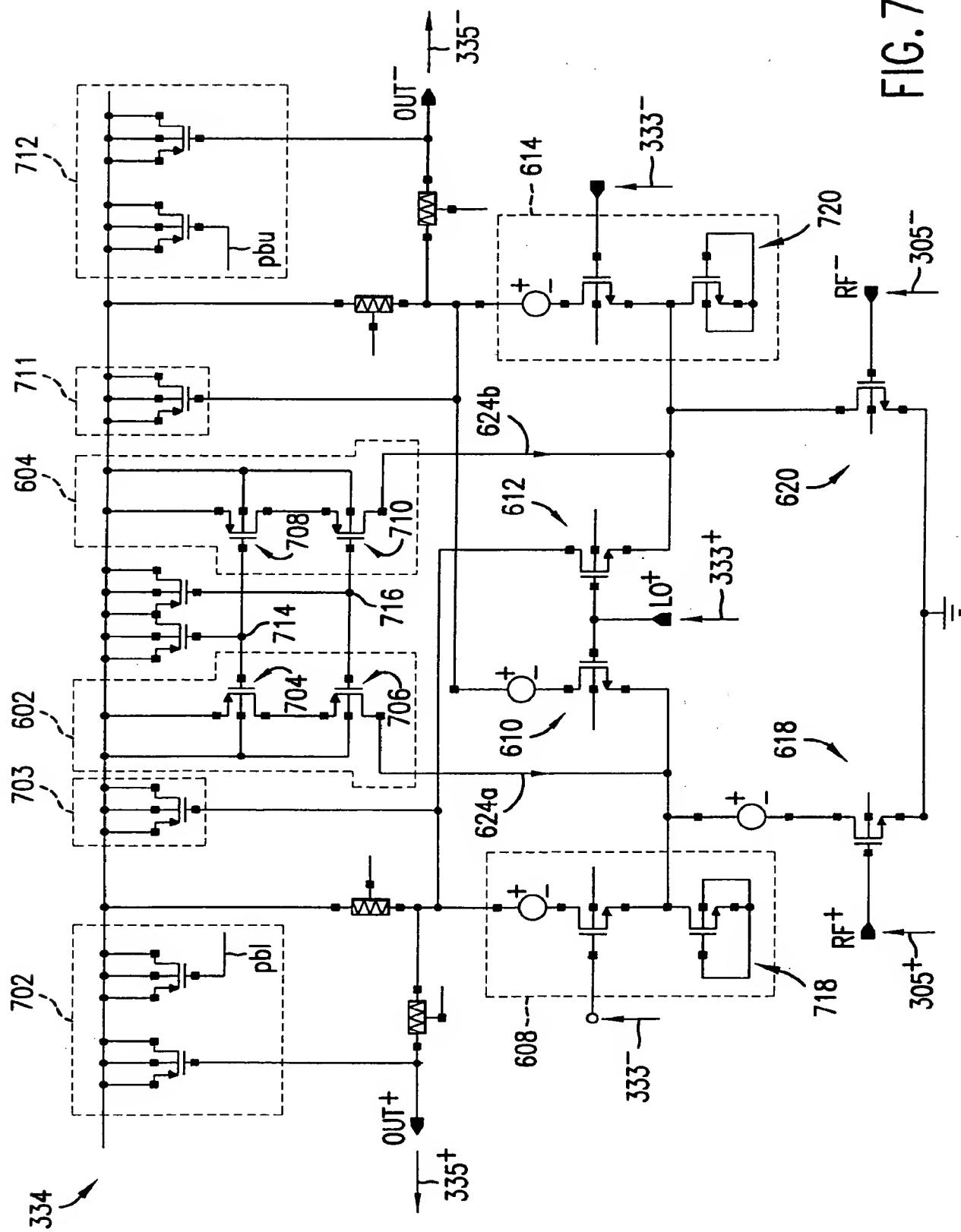


FIG. 6



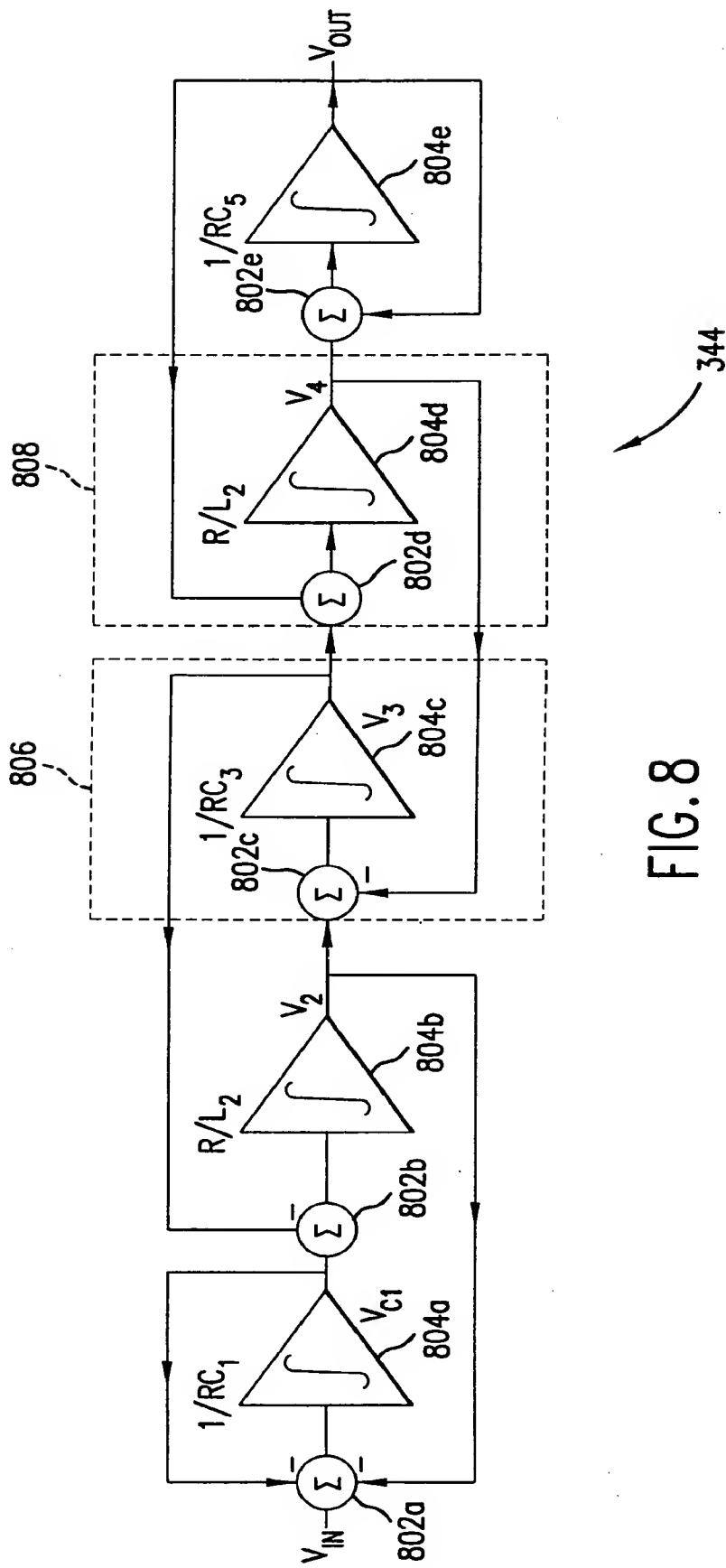


FIG. 8

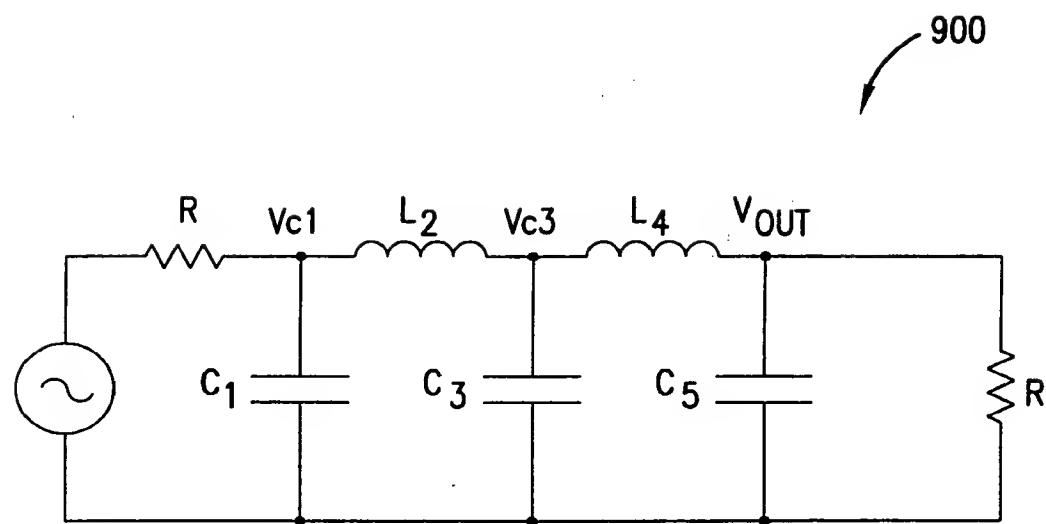


FIG. 9

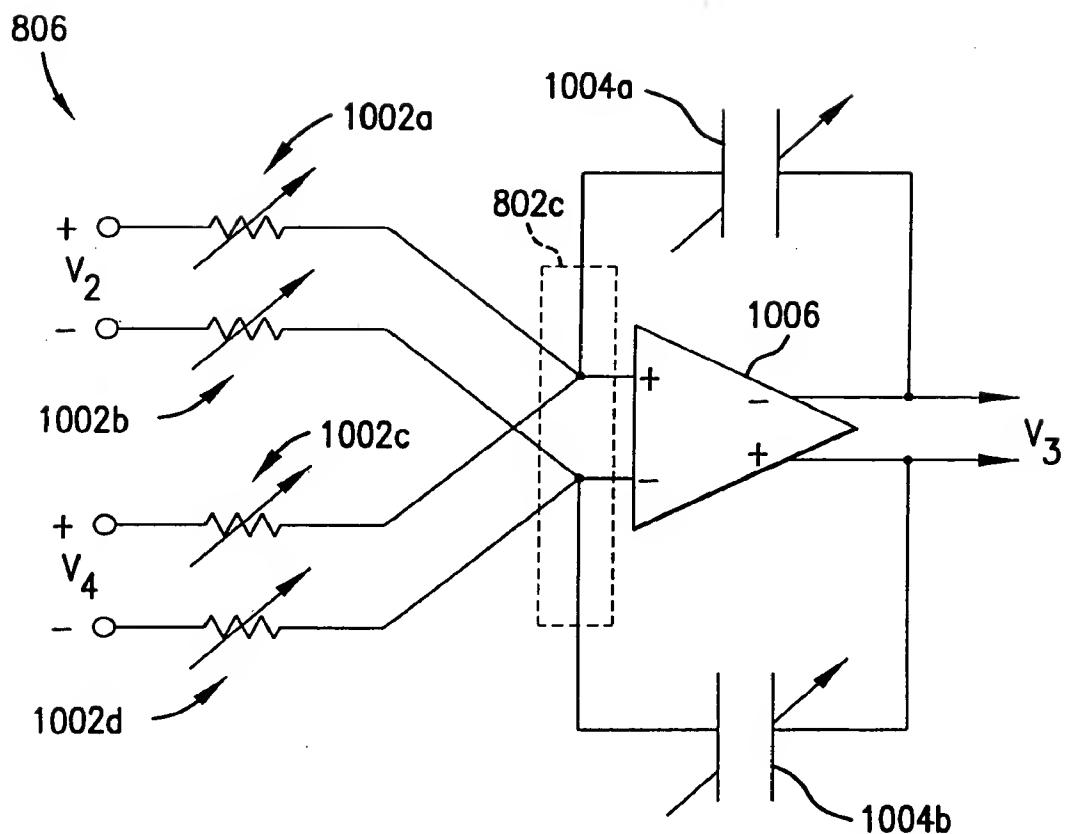
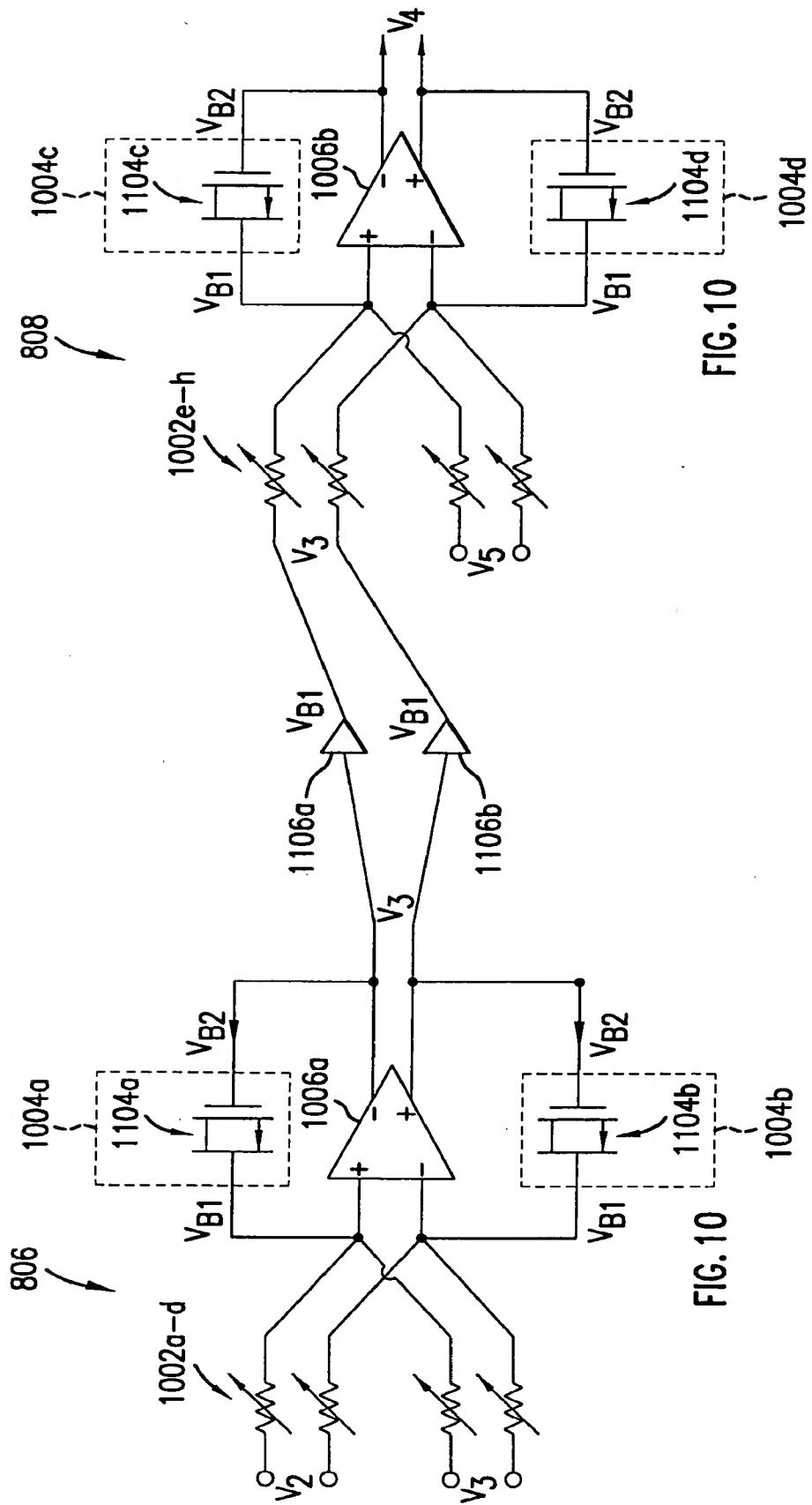


FIG. 10



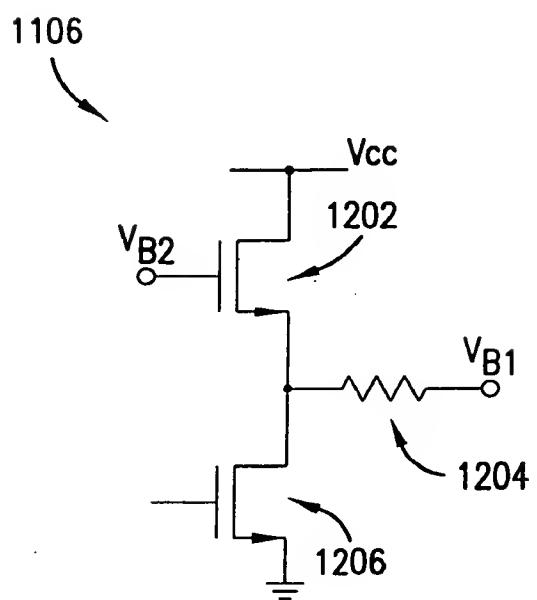


FIG. 12

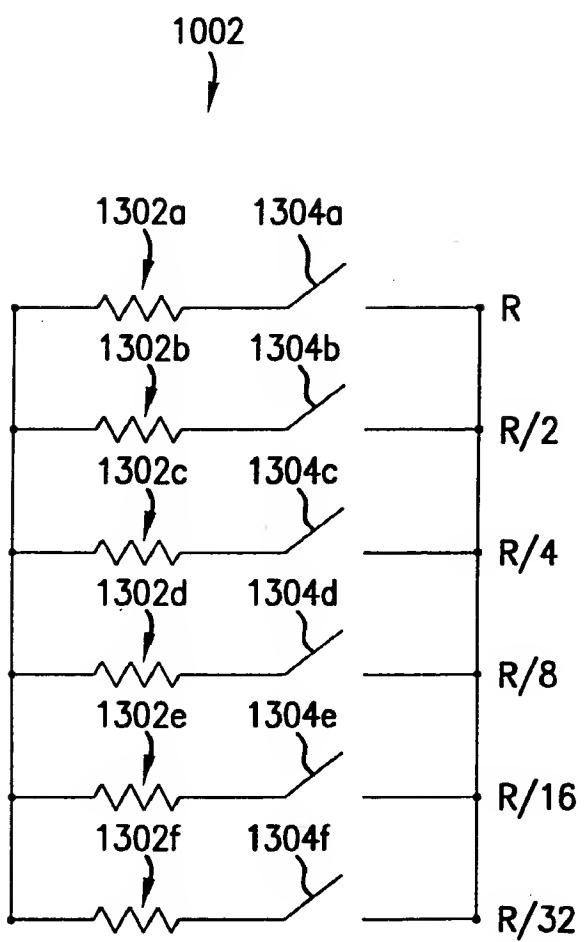
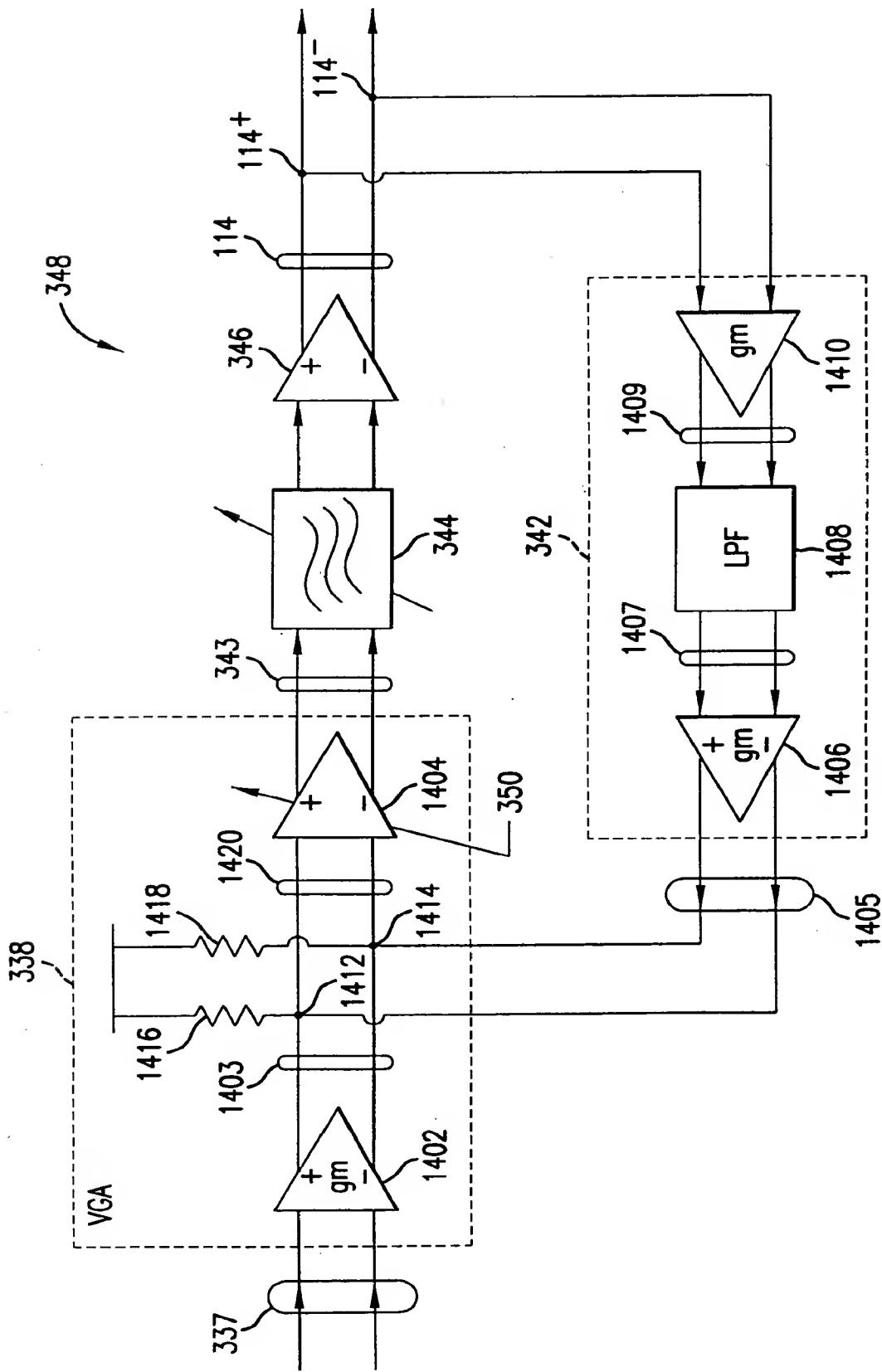


FIG. 13



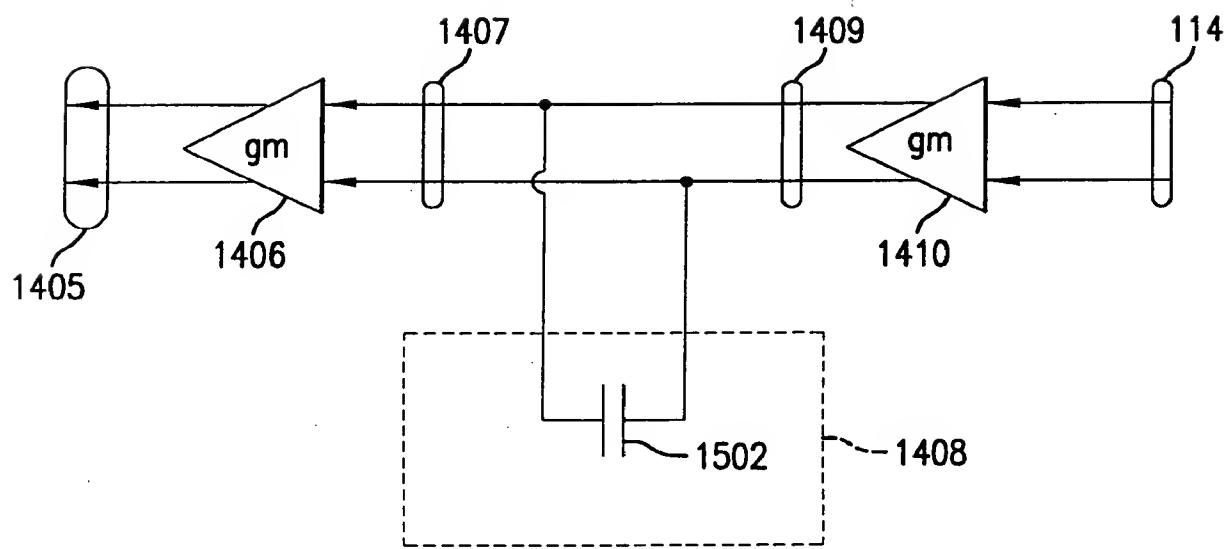


FIG. 15

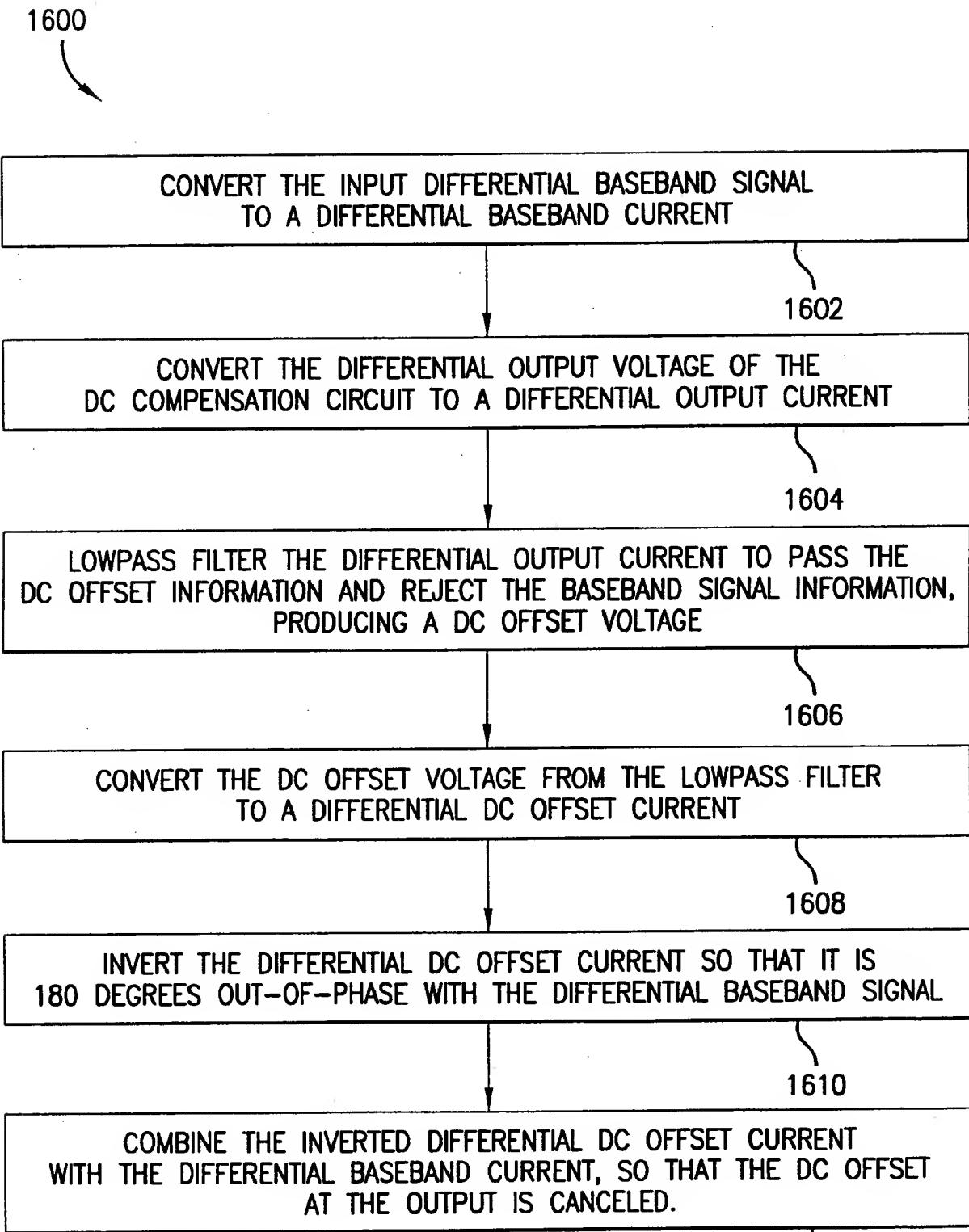


FIG. 16

1612

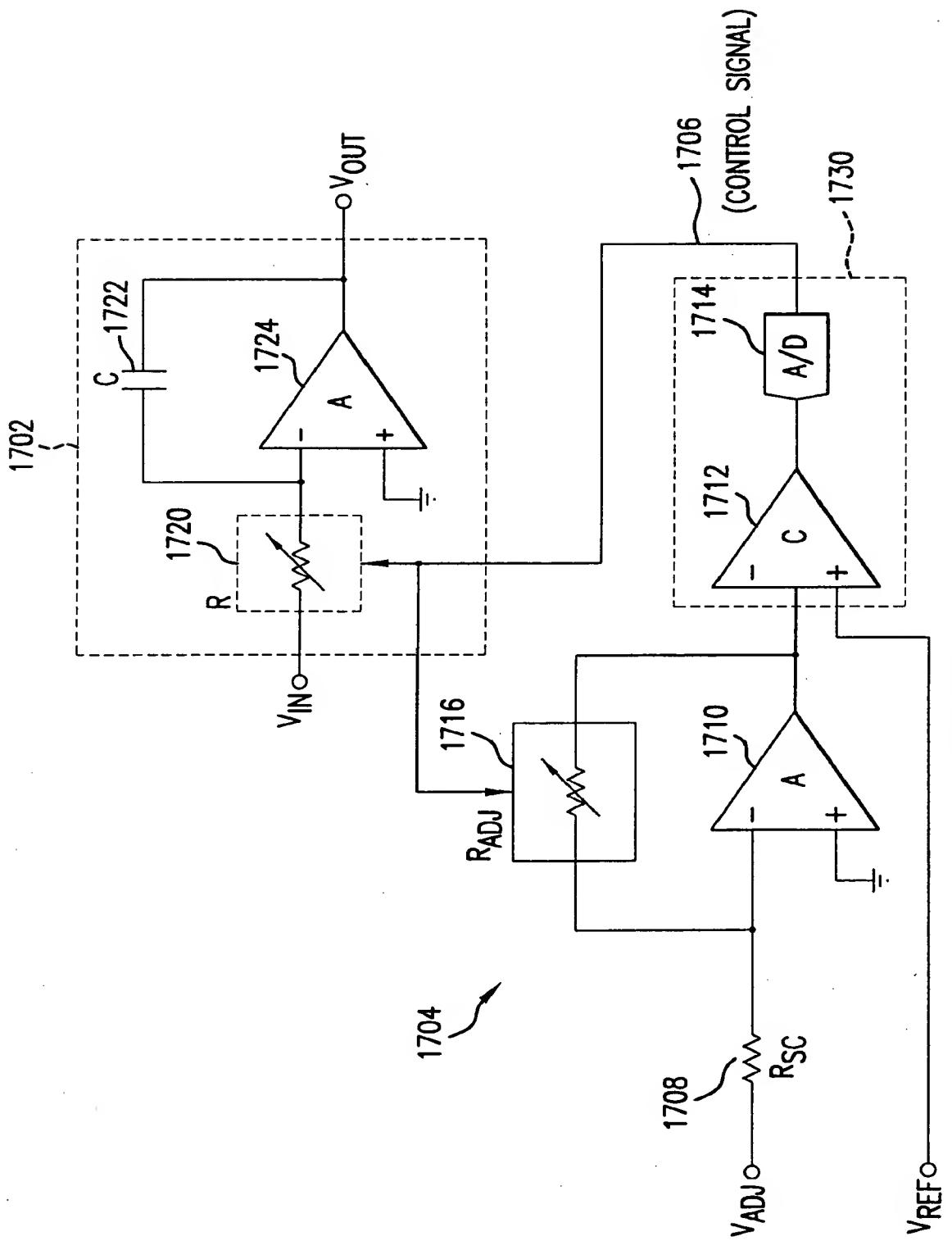


FIG. 17

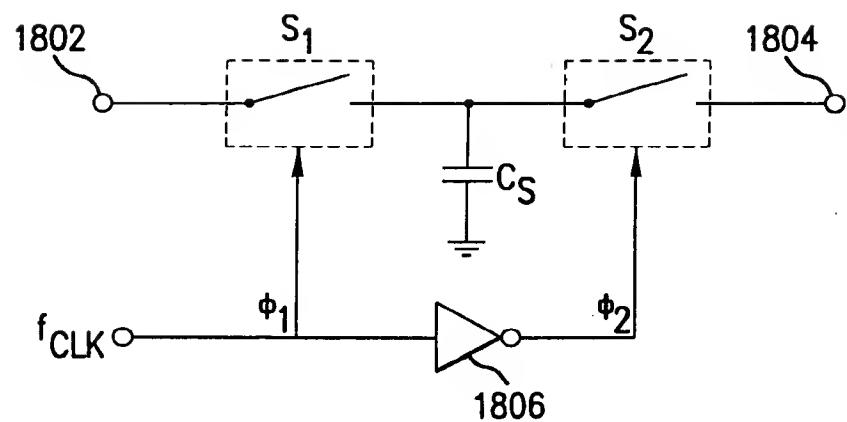


FIG. 18

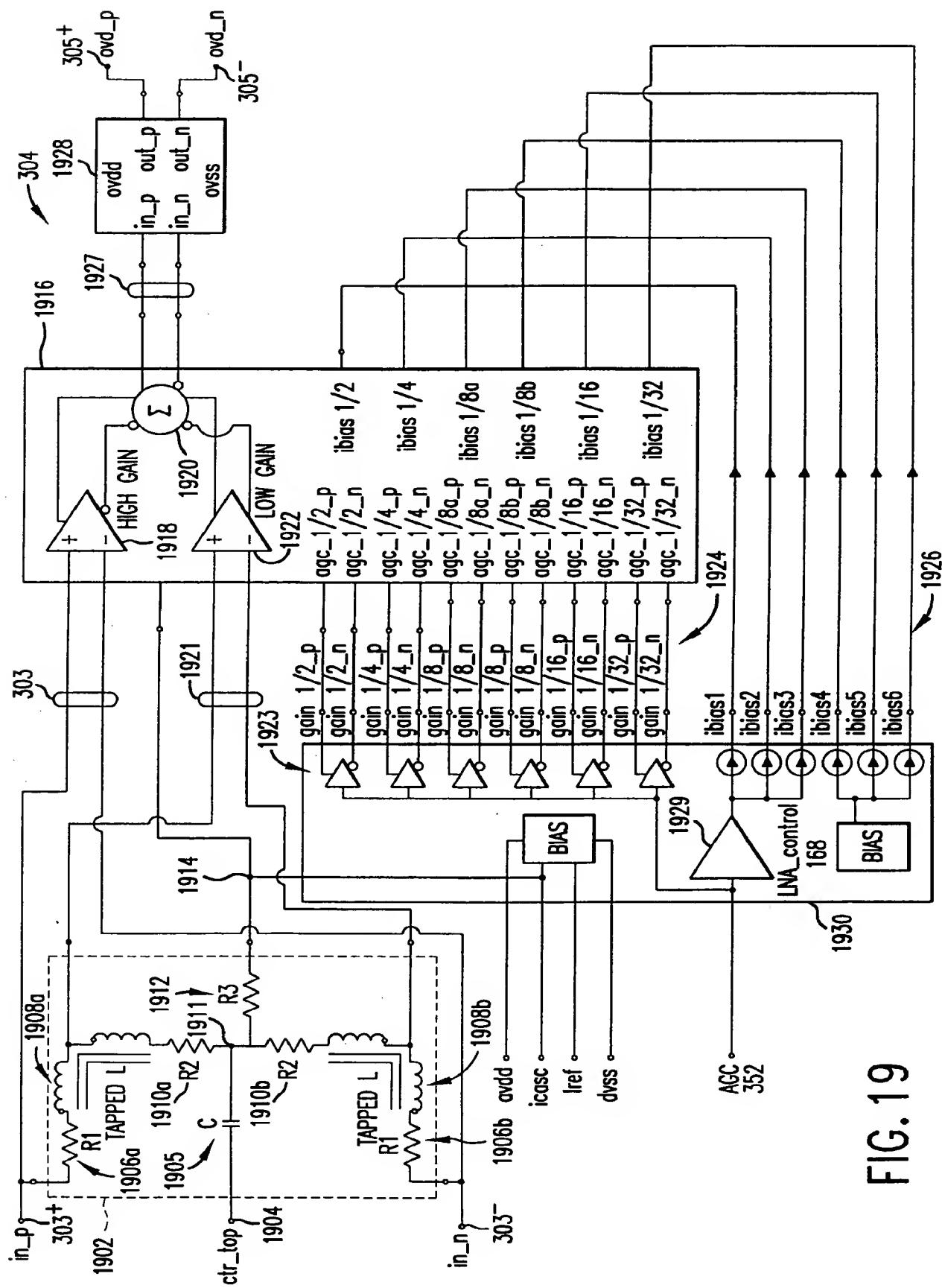
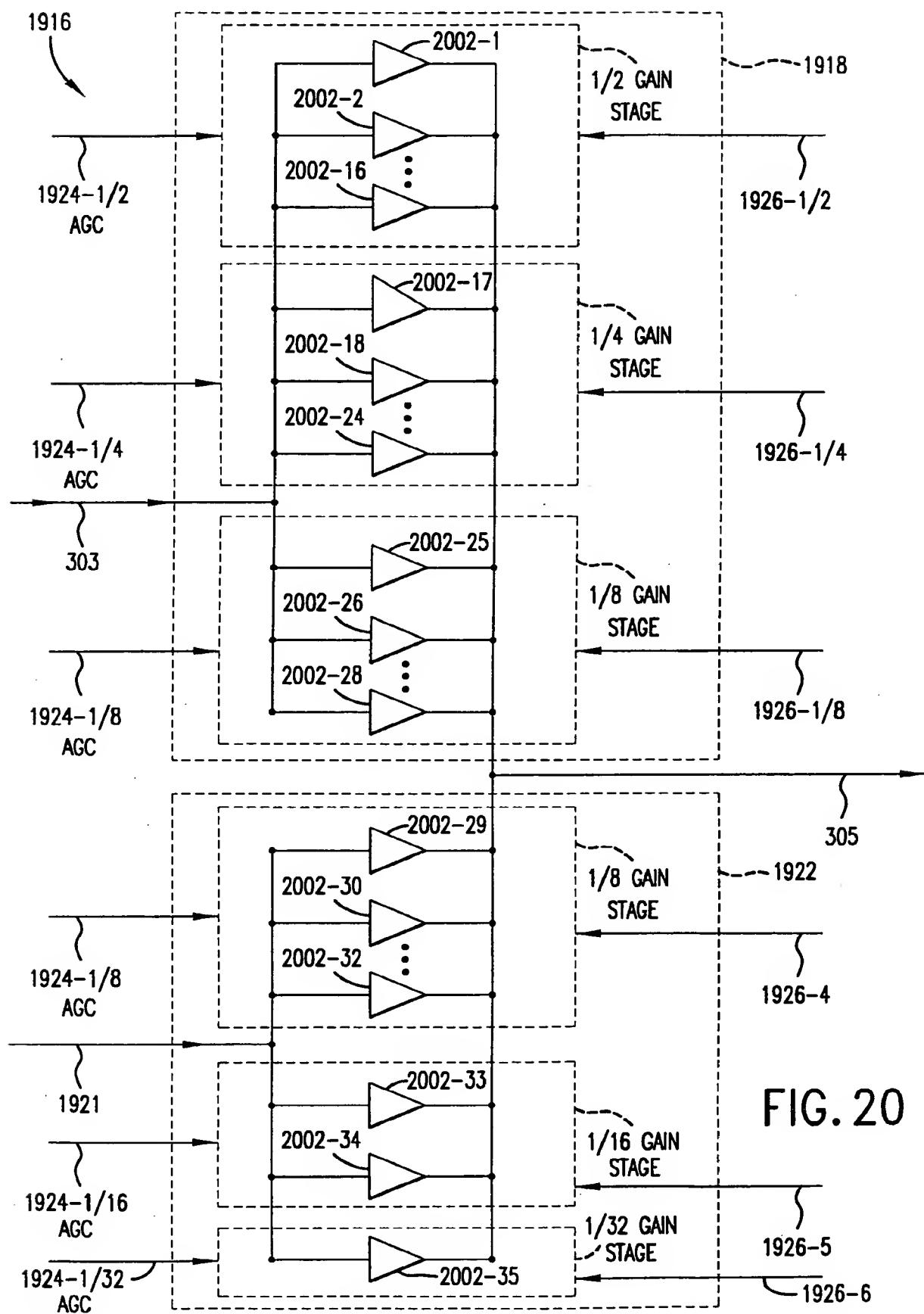
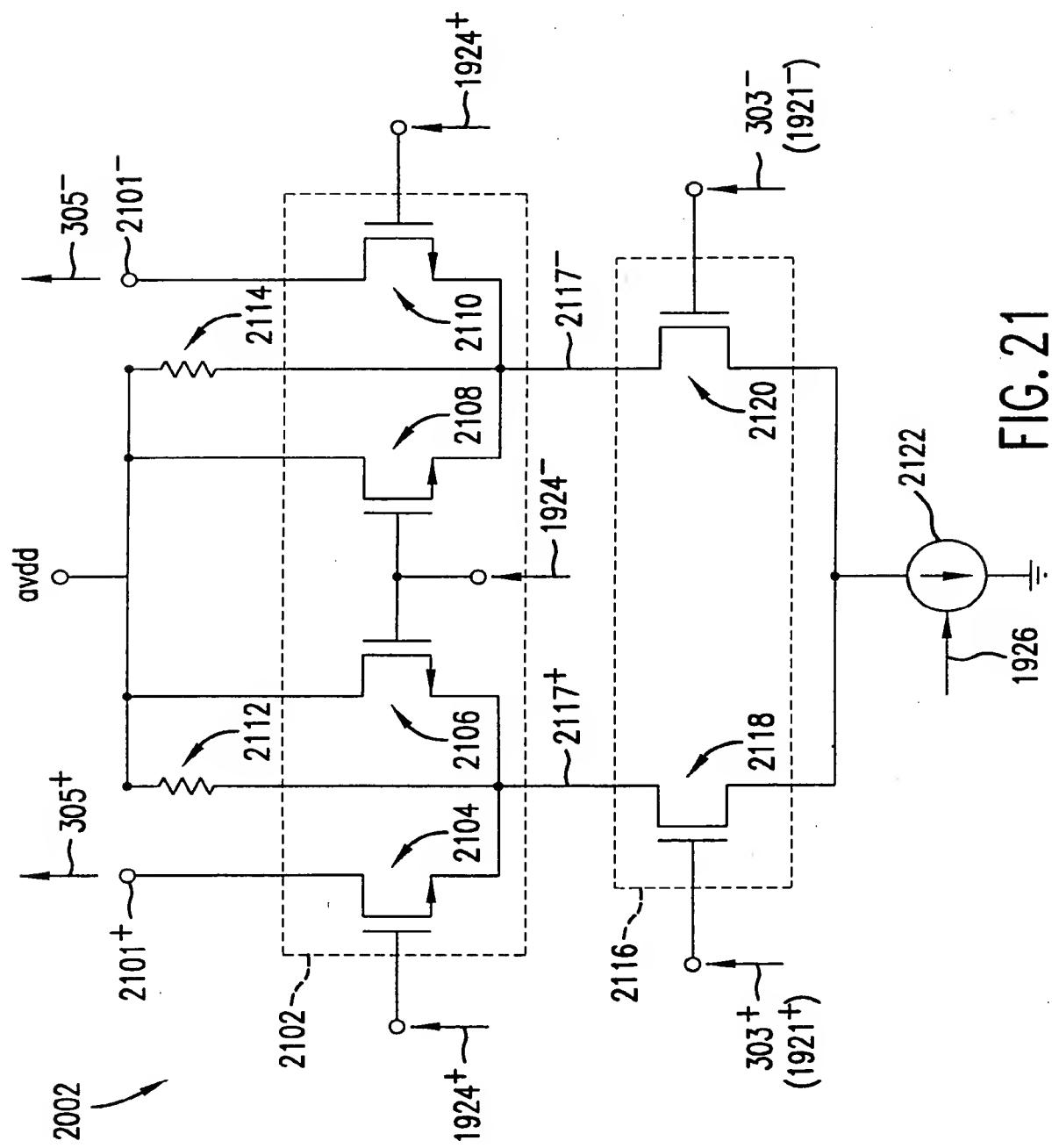


FIG. 19





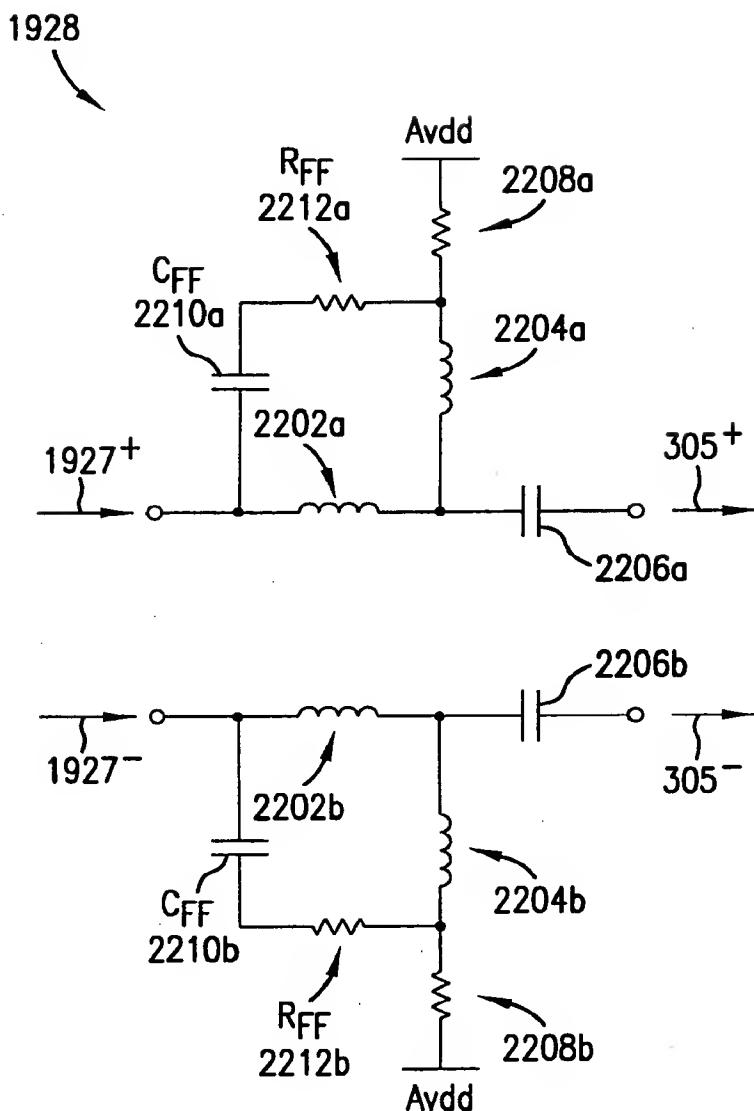
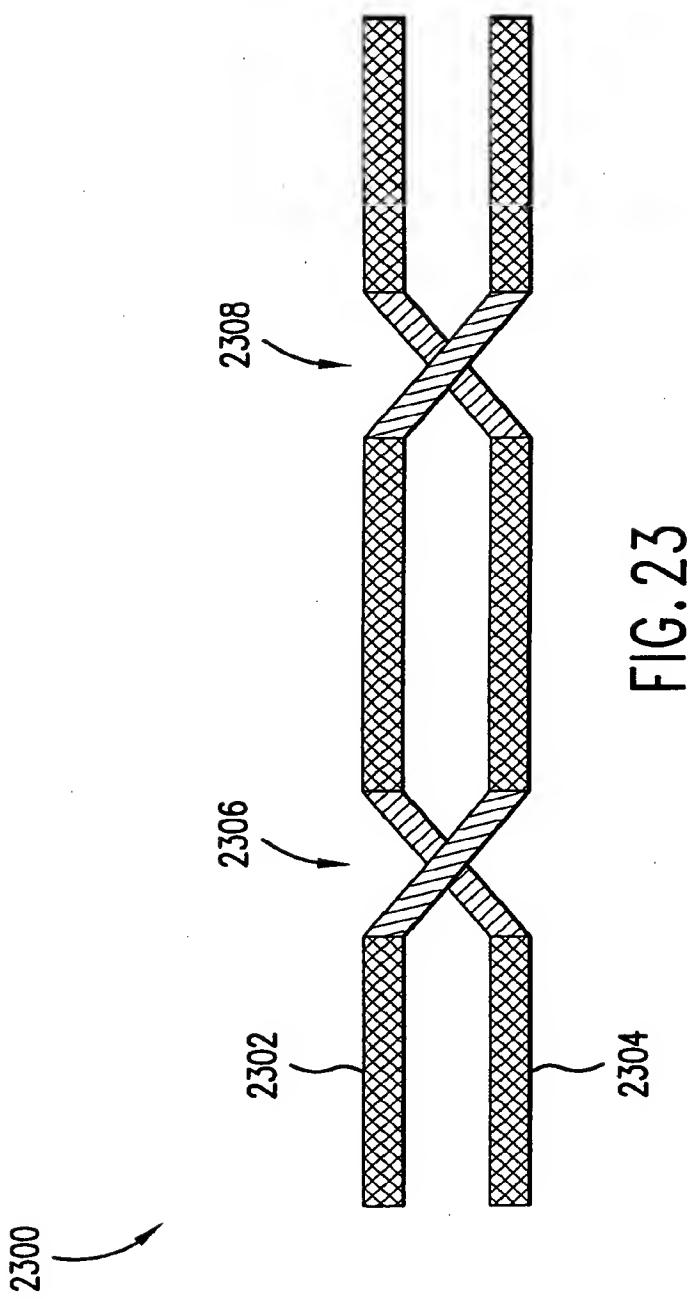


FIG. 22



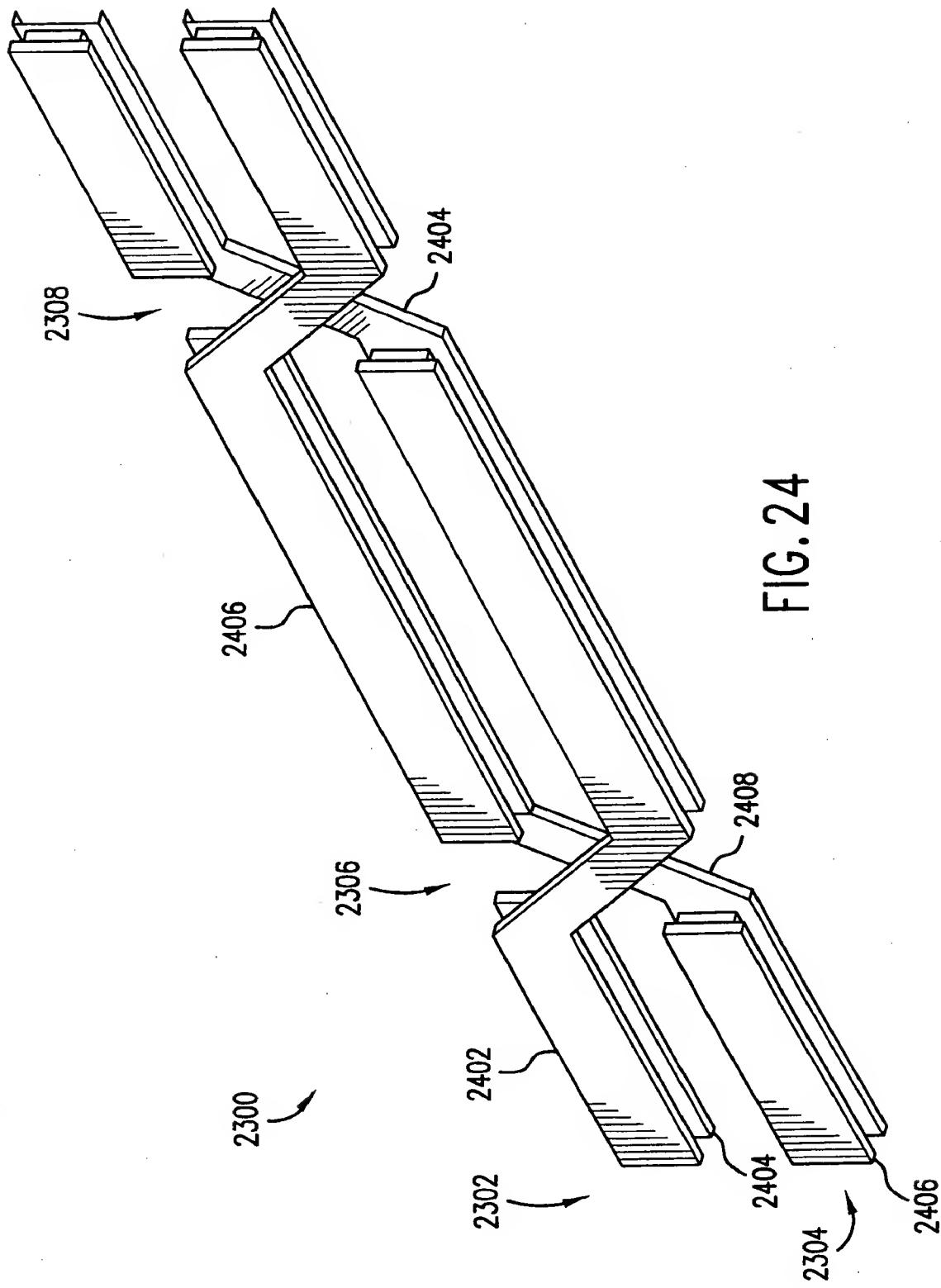


FIG. 24